

# **MLFB-Ordering data**

6SL3220-1YH62-0CP0



Client order no. : Order no. : Offer no. :

Remarks:

Item no.: Consignment no. : Project :

Rated data			General tech. specifications	
Input			Power factor λ	0.75 0.93
Number of phases	3 AC		Offset factor cos φ	0.96
Line voltage	500 690 V +10 % -10 %		Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB
Rated voltage	690V IEC	600V NEC	Power loss	7.716 kW
Rated current (LO)	537.00 A	526.00 A	Filter class (integrated)	RFI suppression filter for Category C3
Rated current (HO)	410.00 A	440.00 A		
Output			EMC category (with accessories)	Category C3
Number of phases	3 AC			
Rated voltage	690V IEC	600V NEC	Ambient conditions	
Rated power (LO)	450.00 kW	500.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3: 2002
Rated power (HO)	400.00 kW	450.00 hp		
Rated current (LO)	470.00 A	487.00 A	Cooling	Air cooling using an integrated fan
Rated current (HO)	420.00 A	423.00 A		
Rated current (IN)	516.00 A		Cooling air requirement	0.362 m³/s (12.784 ft³/s)
Max. output current	682.00 A		Installation altitude	1000 m (3280.84 ft)
Pulse frequency	2 kHz		Ambient temperature	
Output frequency for vector control	0 100 Hz		Operation	0 45 °C (32 113 °F)
,			Transport	-40 70 °C (-40 158 °F)
Output frequency for V/f control	0 100 Hz		Storage	-25 55 °C (-13 131 °F)
			Relative humidity	
Overload capability			Max. operation	95 % At 40 °C (104 °F), condensatio and icing not permissible

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#### Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

#### High Overload (HO)

150% x base load current IH for 60 s within a 600 s cycle time



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		Figure s	
Mechanical data		Closed-loop control techniques	
IP20 / UL open type	V/f linear / square-law / paramete	<b>erizable</b> Yes	
	V/f with flux current control (FCC	Yes	
	V/f ECO linear / square-law	Yes	
	Sensorless vector control	Yes	
1695 mm (66.73 in)	Vector control, with sensor	No	
393 mm (15.47 in)	—— Encoderless torque control	Yes	
tputs	Encoderness torque control	163	
	Torque control, with encoder	No	
6	Comm	Communication	
11 V		PROFIBUS DP	
5 V			
15 mA	Connections		
	Signal Cable		
1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
	Line side		
2	Version	M12 screw	
DC 30 V, 5.0 A	Conductor cross-section	240.00 mm <sup>2</sup> (MCM 2 x 500 MCM 4 x 500)	
0	Motor end		
	Version	M12 screw	
2 (Differential input)	Conductor cross-section	240.00 mm <sup>2</sup> (MCM 2 x 500 MCM 4 x 500)	
10 bit			
Switching threshold as digital input		M12 corous	
4 V		M12 screw	
1.6 V	-	450 (400 47.5)	
	Shielded	150 m (492.13 ft)	
	IP20 / UL open type FSH  162 kg (357.15 lb) 548 mm (21.57 in) 1695 mm (66.73 in) 393 mm (15.47 in)  Eputs  6  11 V  5 V  15 mA  1  2  DC 30 V, 5.0 A  0  2 (Differential input) 10 bit  put 4 V	FSH  162 kg (357.15 lb)  548 mm (21.57 in)  1695 mm (66.73 in)  393 mm (15.47 in)  Eputs  Torque control, with sensor  Encoderless torque control  Communication  Communication  1 Conductor cross-section  Line side  Version  Conductor cross-section  Motor end  Version  Conductor cross-section  DC 30 V, 5.0 A  OMotor end  Version  Conductor cross-section  DC link (for braking resistor)  PE connection  Max. motor cable length	

## PTC/ KTY interface

Number

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^{\circ}\text{C}$ 

1 (Non-isolated output)



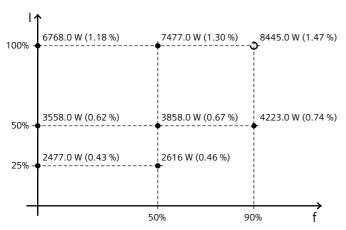
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### Converter losses to EN 50598-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-36.50 %



 $The \ percentage \ values \ show \ the \ losses \ in \ relation \ to \ the \ rated \ apparent \ power \ of \ the \ converter.$ 

The diagram shows the losses for the points (as per standard EN 50598) of the relative torque generating current (I) over the relative motor stator frequency(f). The values are valid for the basic version of the converter without options/components.

#### Standards

Compliance with standards

UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH

**CE** marking

EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

<sup>\*</sup>converted values